

Amendments to the Abstract

Please replace the Abstract of the Disclosure with the following paragraph:

~~A-Embodiments of a method for incrementally coding and signalling-signaling~~
motion information for a video compression system involving a motion adaptive transform and
embedded coding of transformed video samples using a computer are disclosed herein. In one
~~such embodiment, the method includes~~ comprises the steps of: (a) ~~storing computer-readable~~
~~instructions in the computer which, when executed, produce~~ producing an embedded motion
~~field bit-stream, representing each motion field in coarse to fine fashion[;]] and (b) interleaving~~
~~incremental~~ storing computer-readable instructions in the computer which, when executed,
~~interleave~~ contributions from said embedded motion fields ~~field bit-stream~~ with ~~incremental~~
~~successive~~ contributions from said ~~embedded coding of the~~ transformed video samples. A
further embodiment of a method for estimating and signalling motion information for a motion
adaptive transform based on temporal lifting steps comprises the steps of: (a) estimating and
signalling motion parameters describing a first mapping from a source frame onto a target frame
within one of the lifting steps; and (b) inferring a second mapping between either said source
frame or said target frame, and another frame, based on the estimated and signalled motion
parameters associated with said first mapping.